



| XQP3 | | | |
|---------------------------|------------------|--|--|
| STANDARD CONNECTORS | Ch. I PAGE 20 | | |
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| REMSRA | CH. IX PAGE 4 | | |
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ORDERING CODE

XQP)

Open loop 2/3 way proportional compensated flow regulator

3

CETOP 3/NG6

 $\begin{bmatrix} \mathbf{c} \end{bmatrix}$

2/3 way compensation with priority function

3

3 way version (standard) For to obtain 2-way version the P line must be closed on the subplate

*

Nominal flow rates

F = 6 l/min

G = 12 l/min **H** = 22 l/min

I = 32 l/min

L = 32 1/111111L = 40 1/min

L = 40 1/

*

 $\mathbf{S} = \text{without decompression}$

D = with decompression

*

Max. current to solenoid

E = 2.35 A

F = 1.76 A

G = 0.88 A

**

Variant (*):

S1 = No variant

P2 = Rotary emergency

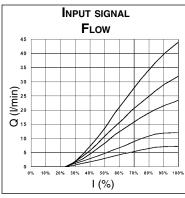
R5 = Rotary emergency 180°

SV = Viton

2

Serial No.

(*) All variants are considered without connectors. The connectors must be order separately. See Ch. I Page 20



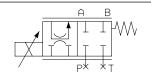
XQP3... OPEN LOOP 2/3 WAY PROPORTIONAL PRESSURE COMPENSATED FLOW REGULATORS



The open loop proportional flow regulator is 2 and 3 way compensated with priority function. It is designed to regulate flow in proportion to an applied electrical current (REM or SE3AN power amplifier). Flow regulation is load independent - B port. Load compensation is achieved by a spool compensator which holds the pressure drop constant across the proportional spool.

Valves are available in the following versions (see hydraulic symbol):

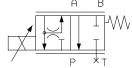
2 way pressure compensated
3 way pressure compensated with priority function.
3 way pressure compensated with priority and venting function.



• In order to obtain the 2 way pressure compensated version the cavities P and T have be closed on the subplate.

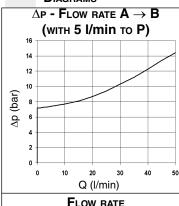
HYDRAULIC SYMBOLS

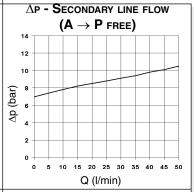
SIMPLIFIED TYPE



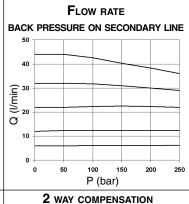
 In order to obtain the 3 way pressure compensated version the cavity T have be closed on the subplate.

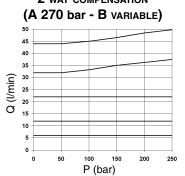
DIAGRAMS

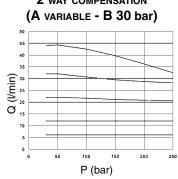




BACK PRESSURE ON PRIORITY LINE (CIE) 25 40 40 35 40 30 25 CO 15 0 0 50 100 150 200 250 P (bar)







The fluid used is a mineral based oil with a viscosity of 46 mm²/s at 40°C. The tests have been carried out at with a fluid of a 40°C.

OPERATING SPECIFICATIONS

Waight

Max. operat. pressure ports A/B /P see note (*) With T port blocked on subplate 250 bar Regulated flow rate 6 / 12 / 22 / 32 / 40 l/min Decompression drain flow max 0,7 l/min Relative duty cycle Continuous 100% ED Type of protection (in relation to the connector used)

Flow rate gain See diagram "Input signal flow" Fluid viscosity $10 \div 500 \text{ mm}^2\text{/s}$ Fluid temperature $-20^{\circ}\text{C} \div 75^{\circ}\text{C}$

Ambient temperature $-20^{\circ}\text{C} \div 70^{\circ}\text{C}$ Max. contamination level from class 7 to 9 in accordance with NAS 1638 with filter $\beta_{10} \ge 75$

| vvoignt | | | 1,7 119 |
|--|----------------|---------|----------|
| Max. current | 2.33A | 1.76 A | 0.88 A |
| Solenoid coil resistance at 25°C (77°F) | 2.25 Ohm | 4.0 Ohm | 16.0 Ohm |
| Hysteresis with ∆p 7 bar | ≤5% | <5% | <8% |
| Response to step $\Delta p = 7$ bar | | | |
| 0 ÷ 100% | 32 ms | 40 ms | 85 ms |
| 100% ÷ 0 | 33 ms | 33 ms | 33 ms |
| Frequency response -3db (Input signal 50 | % ± 25% Vmax.) | | |
| | 22Hz | 22Hz | 12Hz |

(*) Pressure dynamic allowed for 2 millions of cycles

Operating specifications are valid for fluids with 46 mm 2 /s viscosity at 40 $^\circ$ C, using specified ARON electronic control units.

Performance data are carried out using the specified Aron power amplifier SE.3.AN... powered to 24V.

AMPLIFIER UNIT AND CONTROL

REMSRA.*.*...

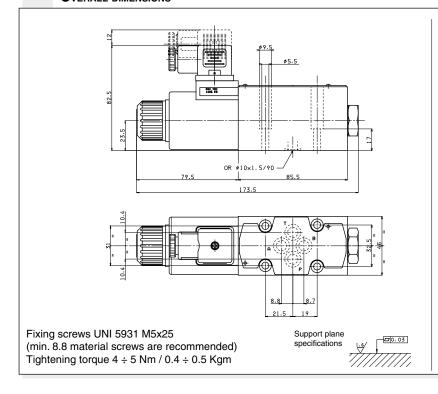
Electronic card for control single proportional solenoid valve.

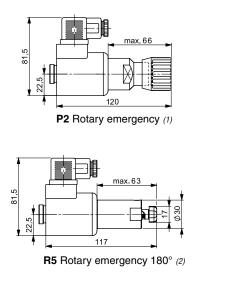
Recommended dither frequency 100 Hz.

SE3AN2100...

Electronic card format EUROCARD for control single proportional solenoid valve

OVERALL DIMENSIONS

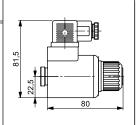




- (1) **P2** Adjustable hand emergency.
- (2) **R5** Two positions hand emergency. The regulated flow with emergency actuated can be less than nominal value.

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"D15P" Proportional solenoids

| Type of protection (in relation to connector used) | IP 66 |
|--|--------------------|
| Duty cycle | 100% ED |
| Insulation class wire | н |
| Weight (coil) | 0,354 Kg |
| Weight (solenoid) | 0,608 Kg |
| | ETD15P - 01/2002/e |